



AIR HANDLER INSTALLATION INSTRUCTIONS

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AIR HANDLER SAFETY

Your safety and the safety of others are very important.

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is the safety alert symbol.

This symbol alerts you to potential hazards that can kill or hurt you and others.

All safety messages will follow the safety alert symbol and either the word "DANGER" or "WARNING."

These words mean:

! DANGER

You can be killed or seriously injured if you don't immediately follow instructions.

! WARNING

You can be killed or seriously injured if you don't follow instructions.

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

INSTALLATION REQUIREMENTS

These instructions are intended as a general guide only and do not supersede any national or local codes in any way. Compliance with all local, state, or national codes pertaining to this type of equipment should be determined prior to installation. Read this entire instruction manual, as well as the instructions supplied in separate equipment, before starting the installation. All models are designed for indoor installation only.

The installation of the air handler, field wiring, warm air ducts, etc. must conform to the requirements of the National Electrical Code, ANSI/NFPA No. 70 (latest edition) in the United States, and any state laws, and local ordinances (including plumbing or wastewater codes). Local authorities having jurisdiction should be consulted before installation is made. Such applicable regulations or requirements take precedence over the general instructions in this manual.

Install the conditioned air plenum, ducts and air filters (not provided) in accordance with NFPA 90B Standard for the Installation of Warm Air Heating and Air-Conditioning Systems (latest edition).

The air handler is provided with flanges for the connection of the plenum and ducts.

Air filters (not provided) must be listed as Class 2 furnace air filters.

The air handler may be used with an optional modular evaporator coil (WEM) in upflow, counterflow, or horizontal applications. See "Installation Configuration Options" in "Installation Configurations" for acceptable system configurations. The mounting plates and the necessary hardware to connect the air handler and modular evaporator coil cabinets together are included with this air handler.

An optional electric heater may be installed in this cabinet. For electric heater accessory, refer to the electric heater rating plate for specific information regarding the electric supply.

Do not remove the cabinet knockouts until it has been determined which knockouts will need to be removed for the installation.

Select any accessories that are to be included in this installation. Select the final installation position which best suits the site conditions. Consider required clearances, space, routing requirements for refrigerant line, condensate disposal, filters, ductwork, wiring, and accessibility for service. Refer to the air handler rating plate on the air handler for specific information.

Tools and Parts

Gather the required tools and parts before starting installation. Read and follow the instructions provided with any tools listed here.

Tools Needed

- 1/4" nut driver
- Level
- Screwdriver
- Adjustable wrench
- Tape measure
- Hammer
- Sealant

Parts Needed

Check local codes, check existing electrical supply, and read "Ductwork Requirements," and "Electrical Requirements," before purchasing parts.

- UL listed wire nuts

Parts Supplied

The mounting plates and the necessary hardware to connect the air handler and modular evaporator coil cabinets together are included with the air handler.

Location Requirements

WARNING



Explosion Hazard

Keep flammable materials and vapors, such as gasoline, away from air handler.

Place air handler so that heating elements are at least 18 inches (46 cm) above the floor for a garage installation.

Failure to follow these instructions can result in death, explosion, or fire.

NOTE: When used on cooling applications, excessive sweating may occur when the air handler with optional evaporator coil (WEM) is installed in a very humid space.

- If installed in an unconditioned space, sealant should be applied around the electrical wires, refrigerant tubing, and condensate lines where they enter the cabinet.
- Electrical wires should be sealed on the inside where they exit the conduit opening. Sealant is required to prevent air leakage into and condensate from forming inside the air handler, control box, and on electrical controls.
- The air handler must be installed in such a way as to allow free access to the optional coil/filter compartment and blower/control compartment.

Installation Clearances

Non-Ducted Return Closet Installation

The air handler can be installed in a closet with a false bottom to form a return air plenum, with a return air plenum through the wall of the closet, with an air duct routed through the floor, or with another approved method. Louvered closet doors or return air grilles are field supplied. Local codes may limit application of systems without a ducted return to single-story buildings.

- Louvered closet doors shall be sized with the minimum opening required to provide minimum return air free area. See Minimum Filter Requirements Chart.
- Louvers installed in a closet to provide return air shall be sized with minimum opening required to provide minimum air return free area. See Minimum Filter Requirements Chart.
- Return air plenum installed through the floor shall be sized with minimum opening required to provide minimum return free area. See Minimum Filter Requirements Chart.
- If the free area is not known, assume a 25% free area for wood or a 75% free area for metal louvers or grilles.
- If the return air plenum is used, the return air grille should be immediately in front of the opening in the plenum to allow for the free flow of return air.
- When not installed in front of the opening, there must be adequate clearance around the air handler to allow for the free flow of return air.

Installation Configurations

For ease in installation, it is best to make any necessary coil configuration changes before setting the air handler in place. See "Installation Configuration Options" later in this section.

Vertical Installations

Upflow/Counterflow

The air handler must be supported on the bottom only and set on a field-supplied supporting frame with an air return opening. Securely attach the air handler to the supporting frame.

Horizontal Installations

Horizontal installations can be left-hand or right-hand air supply. The cabinet must be supported by the building structure to ensure cabinet integrity. Ensure that there is adequate room to remove the blower access panel if installing in the horizontal position.

Suspended Cabinet Installation

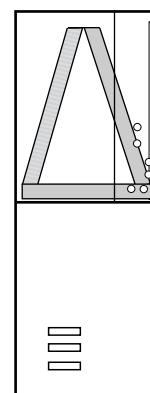
NOTE: Air handlers cannot be installed in such a way that the blower access panel is facing up or down.

- The suspending means must be field fabricated, and should consist of two "cradles" made by attaching two rods to a length of angle iron or equivalent structural steel.
- Locate the cradles so that they are as close as possible to the ends of the air handler (this will provide access for removal of major components such as the blower assembly).
- Provide enough clearance between the suspension rods and the air handler to allow removal of the blower access panel.

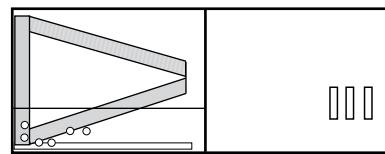
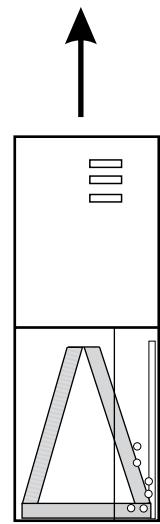
Installation Configuration Options

NOTE: Typical installations with optional WEM modular evaporator coil are shown.

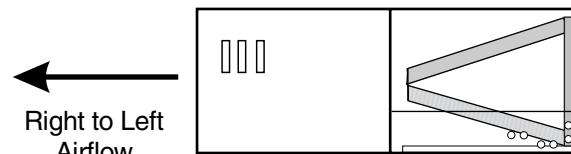
Counterflow



Upflow



Left to Right Airflow



Right to Left Airflow

Horizontal

Electrical Requirements

WARNING



Electrical Shock Hazard

Electrically ground air handler.

Connect ground wire to ground terminal marked "GND".

Failure to do so can result in death or electrical shock.

- All field wiring must be done in accordance with National Electrical Code, applicable requirements of UL and local codes where applicable.
- Electrical wiring, disconnect means and over-current protection are to be supplied by the installer. Refer to the air handler rating plate for maximum overcurrent protection, minimum circuit ampacity, as well as operating voltage.
- The power supply must be sized and protected according to the specifications supplied on the product.
- This air handler is factory-configured for 240 Volt, single phase, 60 cycles. For 208 Volt applications, see "208 Volt Conversion" in the "Make Electrical Connections" section.
- For optional electric heater applications, see "Accessories." Refer to the instructions provided with the accessory for proper installation.

NOTES:

- Use copper conductors only.

Ductwork Requirements

- Install the conditioned air plenum, ducts and air filters (not provided) in accordance with NFPA 90B Standard for the Installation of Warm Air Heating and Air-Conditioning Systems (latest edition).
- The air handler is provided with flanges for the connection of the plenum and ducts.
- All air filters (not provided) must be listed as Class 2 furnace air filters.

- Supply and return ductwork must be adequately sized to meet the system's air requirements and static pressure capabilities. Ductwork should be insulated with a minimum of 1" thick insulation with a vapor barrier in conditioned areas or 2" minimum in unconditioned areas.
- Supply plenum should be the same size as the flanged opening provided around the blower outlet and should extend ideally at least 3 ft from the air handler before turning or branching off plenum into duct runs. The plenum forms an extension of the blower housing and minimizes air expansion losses from the blower.

INSTALLATION INSTRUCTIONS

Inspect Shipment

⚠ WARNING

Excessive Weight Hazard

Use two or more people to move and install air handler. Failure to do so can result in back or other injury.

The air handler is completely factory assembled, and all components are performance tested. Each unit consists of a blower assembly and controls in an insulated, galvanized factory-finished enclosure. Knockouts are provided for electrical wiring entrance.

- Check the unit rating plate to confirm specifications are as ordered.
- Upon receipt of equipment, inspect it for possible shipping damage. Be sure to examine the unit inside the carton if the carton is damaged.
- If damage is found, it should be noted on the carrier's freight bill. Damage claims should be filed with the carrier immediately. Claims of shortages should be filed with the seller within 5 days.

NOTE: If any damages are discovered and reported to the carrier, do not install the unit as your claim may be denied.

Install Ductwork

IMPORTANT:

- Install ductwork in accordance with NFPA 90B Standard for the Installation of Warm Air heating and Air-Conditioning Systems (latest edition) and any local codes.
- Connect supply air duct to the flange on top of the unit. If an isolation connector is used, it must be non-flammable.
- A return air duct system is recommended. If the unit is installed in a confined space or closet, the entire duct cross sectional area must meet minimum return air free area.

Install Filter

Filters are not supplied with these air handlers. It is the installer's responsibility to install properly sized filters in accordance with the Minimum Filter Requirements Chart.

- The filter size is determined by the "Nominal Tons Air Conditioning & Nominal Airflow" (see chart).
- Areas and dimensions shown for cleanable filters are based on filters rated at 600 ft per minute face velocity.
- Typical filter sizes are shown; however, any combination of filters whose area equals or exceeds the minimum area shown is satisfactory.

Minimum Filter Requirements Chart

Nominal Tons Air Conditioning & Nominal Airflow	Square Inch Surface Area & Nominal Size		Minimum Return Air Free Area
	Disposable Filters	Cleanable Filters	
Up to 2 Tons	432 sq. in.	260 sq. in.	260 sq. in.
800 - 900 CFM	20" x 25"	15" x 20"	
2½ Tons	480 sq. in.	288 sq. in.	288 sq. in.
900-1000 CFM	20" x 30"	14" x 25"	
3 Tons	576 sq. in.	346 sq. in.	346 sq. in.
1100 - 1300 CFM	*14" x 25"	16" x 25"	
3½ Tons	672 sq. in.	404 sq. in.	404 sq. in.
1300 - 1500 CFM	*16" x 25"	20" x 25"	
4 Tons	768 sq. in.	461 sq. in.	461 sq. in.
1500 - 1700 CFM	*20" x 25"	20" x 25"	
5 Tons	960 sq. in.	576 sq. in.	576 sq. in.
1900 - 2100 CFM	*20" x 30"	24" x 25"	

* 2 disposable filters required for these units

If a central return air filter-grille is used, the air handler does not require a filter.

Make Electrical Connections

208/240 Volt Installations

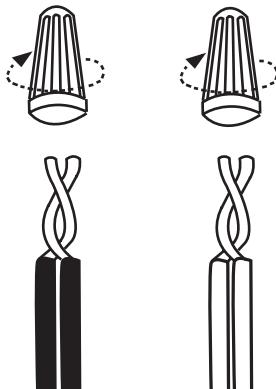
WARNING



Electrical Shock Hazard

Disconnect all power supplies before servicing.
Replace all parts and panels before operating.
Failure to do so can result in death or electrical shock.

1. Disconnect all power supplies.
2. Remove the blower access panel.
3. Route the field supply wires to the air handler electrical connection box.
4. Using UL listed wire nuts, connect the field supply wires to the air handler (black to black and yellow to yellow).



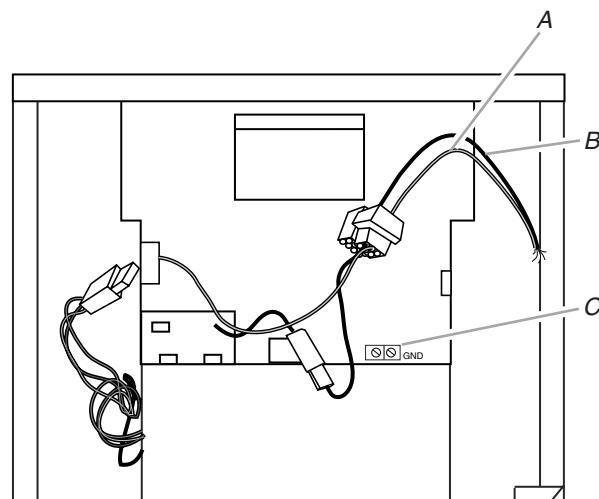
WARNING



Electrical Shock Hazard

Electrically ground air handler.
Connect ground wire to ground terminal marked "GND".
Failure to do so can result in death or electrical shock.

5. Connect ground wire to terminal marked "GND."



A. Connect yellow to yellow
B. Connect black to black
C. Connect ground wire to ground terminal marked "GND"

6. Replace the blower access panel.

208 Volt Conversion

WARNING



Electrical Shock Hazard

Disconnect all power supplies before servicing.
Replace all parts and panels before operating.
Failure to do so can result in death or electrical shock.

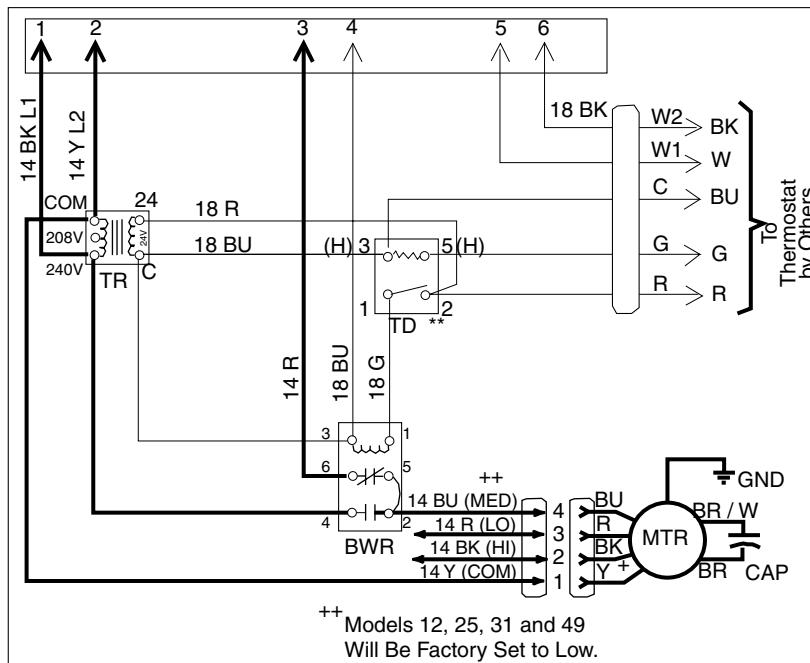
1. Disconnect all power supplies.
2. Remove the blower access panel.
3. Move the 2 connected black transformer leads from the 240 Volt terminal on the transformer to the 208 Volt terminal on the transformer. See the appropriate wiring diagram for your model.

Wiring Diagram—Blower (PSC Motor)

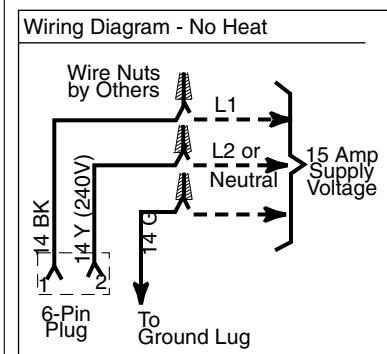
Power (Factory Wired) ——————
Power (Field Wired) - - - - -
Control (Factory Wired) ——————
Control (Field Wired) - - - - -

BK: Black W: White
R: Red G: Green
BU: Blue Y: Yellow

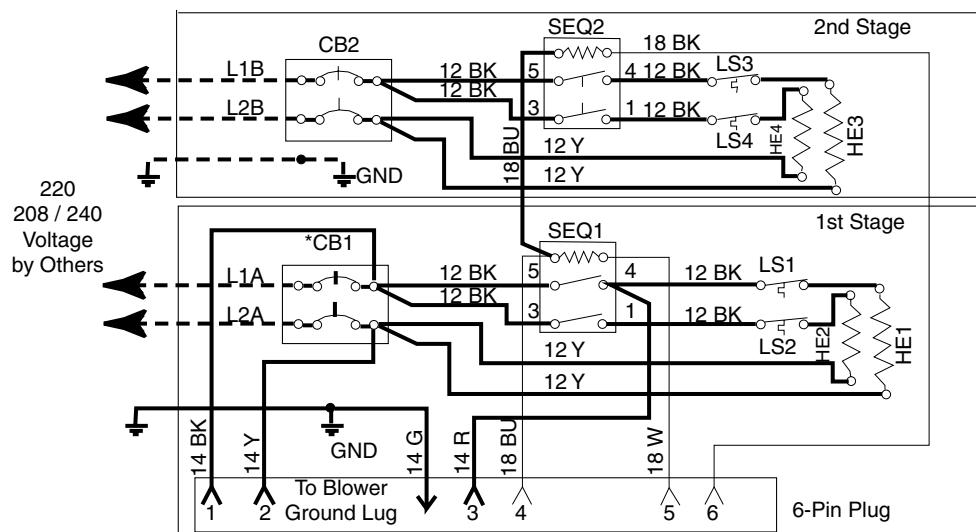
Control Circuit Wiring to
be 24 Volt, N.E.C. Class 2



** TD = Time Delay (Optional)
TR = Transformer
BWR = Blower Relay
MTR = Blower Motor
CAP = Motor Capacitor
GND = Ground Connection



Wiring Diagram—Optional Electric Heat



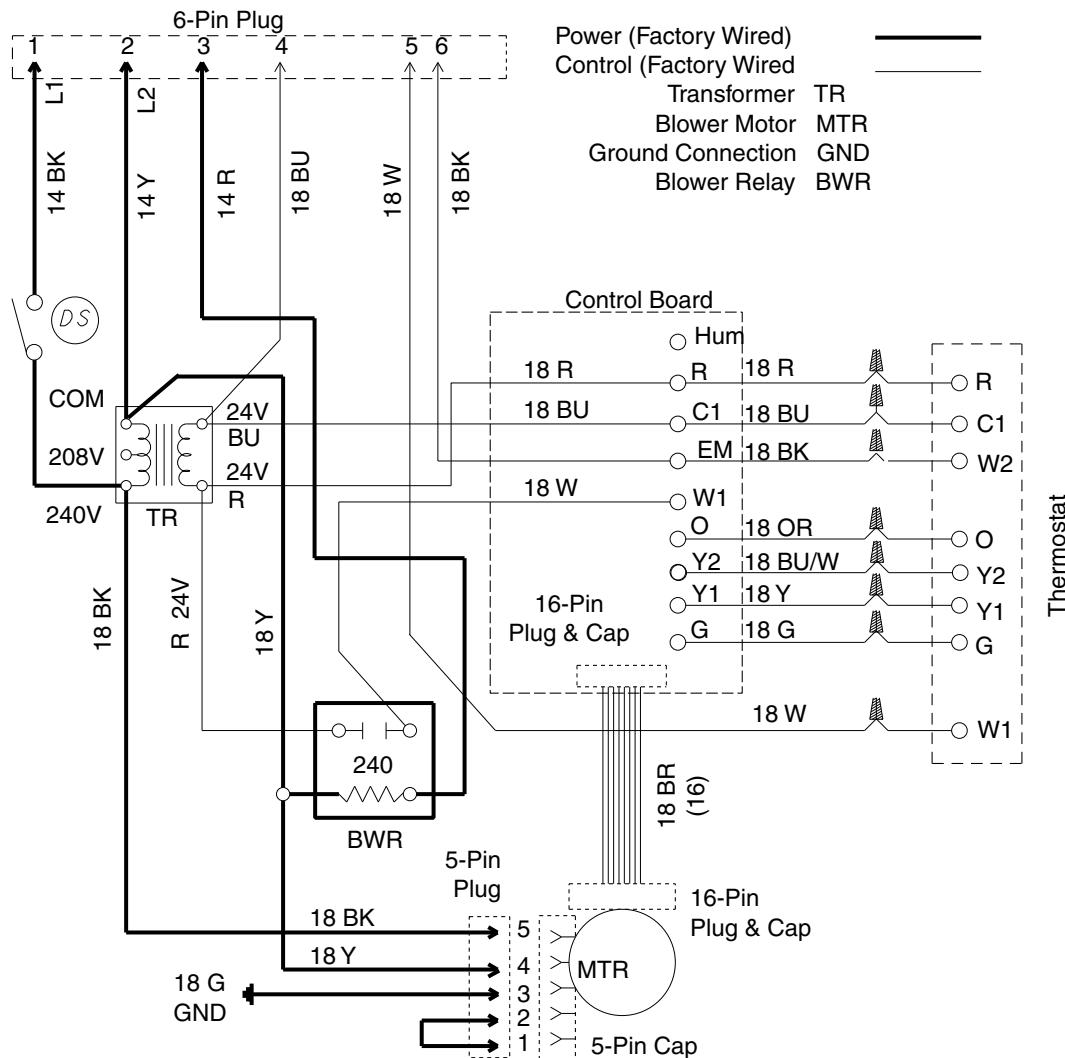
Heaters Used:
5 KW = HE1
7.5 & 10 KW = HE1 & HE2
15 KW = HE1, HE2 & HE3
20 KW = HE1, HE2, HE3 & HE4

* TB = Terminal Block (Optional)
* CB = Circuit Breaker (Optional)
SEQ = Sequencer
GND = Ground Lug
LS = Limit Switch
HE = Heater Element

Power (Factory Wired)
Power (Field Wired)
Control (Factory Wired)
Control (Field Wired)

Four horizontal lines are arranged vertically. The top line is a solid black line. The middle line is a dashed black line. The bottom line is a solid black line. There are two solid black lines at the bottom.

Wiring Diagram—Blower (Variable Speed Motor)



Complete Installation

Pre-Start Check

- Is unit properly located, level, secure, and serviceable?
- Is the wiring neat, correct, and in accordance with the wiring diagram?
- Is the air handler properly grounded and connected to a properly sized fuse or circuit breaker?
- Is the thermostat correctly wired, level, and in a good location?
- Are all access panels in place and secure?
- Are any accessories properly installed?

Check Airflow (PSC Motor)

Cooling blower speed—if cooling is used

- For proper cooling operation, the airflow through the indoor coil should be between 350 and 450 CFM per ton of cooling capacity (or 350 - 450 CFM per 12,000 Btu/h) based on the rating of the outdoor condensing unit.
- The cooling blower speed is factory configured to provide correct airflow for an outdoor condensing unit or heat pump that matches the maximum cooling capacity rating of the air handler.
- If the outdoor condensing unit is smaller than the maximum cooling capacity rating for the air handler, the cooling blower speed may need to be changed. Refer to Blower Performance Chart—PSC Motor.

IMPORTANT: The cooling blower speed must be set to provide a minimum of 350 CFM airflow per ton (12,000 Btu/h) of outdoor cooling capacity. The heating blower speed must be set according to the heater installation instructions if installed.

To change blower speed: Refer to "Wiring Diagram—Blower (PCS Motor)" and "Wiring Diagram—Optional Electric Heat."

WARNING



Electrical Shock Hazard

Disconnect all power supplies before servicing.
Replace all parts and panels before operating.
Failure to do so can result in death or electrical shock.

1. Disconnect all power supplies.
2. Remove the air handler access panel.
3. Locate pin number 2 on the blower relay. Two black wires are connected to this terminal pin. One connects to pin number 5 on the blower relay, one connects to either a red, blue or black wire from terminal 1 (T1).
4. Remove the wire going to the 4-pin blower motor connector from the splice.
5. Connect the blower lead (Red [LO], Blue [MED] or Black [HI]) for the correct blower speed onto the splice from the 4-pin blower motor connector.

NOTE: Unused blower speeds are shipped from the factory covered with a plastic cap. Remove this cap from the new blower speed terminal and replace it over the factory-set blower terminal.

6. Replace all panels.
7. Reconnect power.

Blower Performance Chart—PSC Motor

Air Handler Model	Blower Speed	CFM @ ESP. - in W.C.					
		0.1	0.2	0.3	0.4	0.5	0.6
WMB24 CC-1A	Low	583	563	557	541	522	473
	Medium	862	855	834	794	748	677
	High	1,159	1,096	1,029	957	871	794
WMB36 CC-1A	Low	838	827	808	778	746	699
	Medium	1,265	1,255	1,235	1,215	1,173	1,118
	High	1,358	1,340	1,311	1,282	1,231	1,179
WMB48 CC-1A	Low	1,161	1,153	1,138	1,115	1,091	1,050
	Medium	1,569	1,541	1,507	1,460	1,405	1,341
	High	1,769	1,735	1,703	1,626	1,570	1,489
WMB60 CC-1A	Low	1,632	1,566	1,581	1,544	1,482	1,417
	Medium	2,163	2,103	2,058	2,000	1,947	1,855
	High	2,398	2,394	2,266	2,180	2,109	2,042

Check Airflow (Variable Speed Motor)

For proper cooling operation, the airflow through the indoor coil should be between 350 and 450 CFM per ton of cooling capacity (or 350 - 450 CFM per 12,000 Btu/h) based on the rating of the outdoor condensing unit.

IMPORTANT: The cooling blower speed must be set to provide a minimum of 350 CFM airflow per ton (12,000 Btu/h) of outdoor cooling capacity.

To change blower speed: Refer to "Wiring Diagram—Blower (Variable Speed Motor)."

WARNING



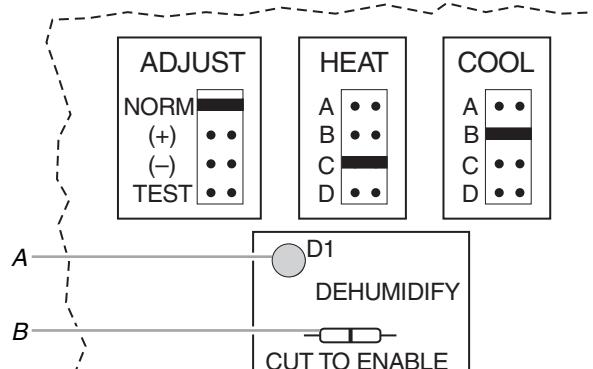
Electrical Shock Hazard

Disconnect all power supplies before servicing.
Replace all parts and panels before operating.
Failure to do so can result in death or electrical shock.

1. Disconnect all power supplies.
2. Locate the control board in the blower control box.
3. Set the HEAT and COOL taps by moving the board jumpers to the A, B, C, or D positions (see Control Board Taps and Dehumidify Resistor) based on the information found in the Blower Performance Chart—Variable Speed Motor.

NOTE: If using a humidistat, the dehumidify resistor located on the bottom right of the control board must be removed to enable it. See Control Board Taps and Dehumidify Resistor. The HUM terminal on the board must be connected to the Normally Closed contact of the humidistat so that the board senses an open circuit on high humidity. If a humidistat is used, the dehumidify LED (see D1 below) will light when the humidistat opens and the motor runs at reduced airflow.

Control Board Taps and Dehumidify Resistor



A. Dehumidify LED
B. Dehumidify resistor

4. If desired, adjust ADJUST tap from NORM: (+) will increase airflow by 10% or (-) will decrease airflow by 12%
5. Reconnect all power supplies.

Blower Performance Chart—Variable Speed Motor

The versatility of the variable speed motor enables the air handler to tailor its performance to the different modes of operation encountered in heating and cooling. All variable speed air handlers are capable of operation at more than one nominal airflow rate. The operation of a variable speed air handler blower at different airflow rates is determined by the control board taps and the thermostat. See the Blower Performance Chart—Variable Speed Motor.

Before beginning the setup, become familiar with the information found in the Blower Performance Chart—Variable Speed Motor. The data in the Blower Performance Chart—Variable Speed Motor is categorized by model size and mode of operation. Use the information provided to determine the CFM taps needed for cooling and heating.

Blower Performance Chart—Variable Speed Motor

Air Handler Model	Energized Thermostat Terminal	Control Board Tap	CFM @ E.S.P. - inches W.C.							
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
WMB36VB-1A	Y1	A	852	858	859	872	879	879	879	879
		B	707	724	728	741	741	745	733	733
		C	617	603	598	603	608	603		
		D	497	482	473	470	455	452	437	423
	Y1/Y2	A	1,215	1,215	1,208	1,208	1,209	1,209	1,202	1,202
		B	995	1,012	1,035	1,035	1,036	1,036	1,036	1,020
		C	817	817	827	827	836	837	837	837
		D	652	638	643	648	648	657	657	644
	G	A	637	623	637	637	637	637	628	628
		B	572	556	556	551	562	545	523	517
		C	514	502	490	484	465	458	437	426
		D	466	445	437	412	403	392	386	382
WMB48VB-1A	Y1	A	1,134	1,123	1,123	1,113	1,102	1,091	1,079	1,074
		B	991	972	956	949	937	923	909	909
		C	847	826	807	793	778	753	736	712
		D	687	664	646	619	612	581	557	531
	Y1/Y2	A	1,676	1,656	1,635	1,624	1,613	1,608	1,608	1,598
		B	1,435	1,404	1,398	1,398	1,392	1,380	1,375	1,362
		C	1,234	1,220	1,212	1,205	1,197	1,184	1,169	1,161
		D	995	987	978	979	962	953	946	937
	G	A	799	785	763	746	724	707	683	655
		B	681	665	646	629	611	580	548	522
		C	577	536	513	475	456	427	388	369
		D	480	428	394	343	307	278		
WMB60VB-1A	Y1	A	1,246	1,231	1,211	1,180	1,143	1,099	1,065	1,053
		B	1,121	1,104	1,078	1,044	993	969	944	927
		C	977	952	900	864	836	817	807	797
		D	863	811	764	738	724	707	694	677
	Y1/Y2	A	1,835	1,834	1,809	1,787	1,775	1,762	1,733	1,692
		B	1,644	1,637	1,623	1,609	1,601	1,572	1,542	1,487
		C	1,392	1,380	1,374	1,361	1,322	1,296	1,255	1,220
		D	1,214	1,193	1,177	1,139	1,094	1,035	1,028	997
	G	A	913	874	826	791	768	757	737	729
		B	836	790	739	713	705	694	675	661
		C	739	691	643	636	624	610	600	585
		D	675	610	582	572	556	547	528	502

NOTES:

- Humidistat will reduce cooling airflow by 10% in high humidity.
- Adjust the Control Board Tap (+) will increase airflow by 10%, while the Control Board Tap (-) will decrease airflow by 12%.
- Adjust the Control Board Tap (-) test will cause the motor to run at 70% of full airflow. Use this for troubleshooting only.
- At the start of a call for cooling, there is a short run at 82% of airflow for 7.5 minutes.
- At the end of a call for cooling, there is a blower delay of 1 minute.

SEQUENCE OF OPERATION

Cooling (cooling only or heat pump)

When the thermostat calls for cooling, the circuit between R and G is completed, and the blower relay is energized. The Normally Open contacts close, causing the indoor blower motor to operate. The circuit between R and Y is also completed; this circuit closes the contactor in the outdoor unit starting the compressor and outdoor fan motor. Circuit R and O energizes the reversing valve, switching it to the cooling position. (The reversing valve remains energized as long as selector switch is in the COOL position.)

Heating (electric heat only)

When the thermostat calls for heat, the circuit between R and W is completed, and the heat sequencer relay is energized. A time delay follows before the heating elements and the indoor blower motor come on. Units with a second heat sequencer relay can be connected with the first sequencer to W on the thermostat subbase or connected to a second stage on the subbase.

Heating (heat pump)

When the thermostat calls for heat, the circuits between R and Y and R and G are completed. Circuit R-Y energizes the contactor starting the outdoor fan motor and the compressor. Circuit R and G energizes the blower relay starting the indoor blower motor.

If the room temperature should continue to fall, the circuit between R and W 1 is completed by the second stage heat room thermostat. Circuit R-W 1 energizes a heat sequencer relay. The completed circuit will energize supplemental electric heat (if available). Units with a second heat sequencer relay can be connected with the first sequencer to W 1 on the thermostat or connected to a second heating stage W 2 on the thermostat subbase.

Variable Speed Features

Some WMB air handlers are equipped with a variable speed motor and will deliver a constant airflow within a wide range of external static pressures. The variable speed blower offers the following comfort features:

AIR HANDLER MAINTENANCE

IMPORTANT: Do not operate system without a filter. A filter is required to protect the coil, blower, and internal parts from excessive dirt and dust. See "Installation Configurations" for the location of the filter in the unit cabinet and the service panel giving access to unit filter. The filter is placed in the supply air return duct by the installer.

■ Inspect air filters at least once a month and replace or clean as required. Dirty filters are the most common cause of inadequate heating or cooling performance.

Start

When called into operation, the variable speed motor will slowly ramp up to normal operating speed. This eliminates the noise and discomfort that results caused by the initial blast of air encountered with standard air handlers. It can take up to 7.5 minutes to reach normal operating speed.

Continuous Blower Operation

The comfort level of the living space can be enhanced when using this feature by allowing continuous circulation of air in between calls for cooling or heating. The circulation of air between calls for cooling or heating occurs at 50% of the normal airflow rate (350 CFM minimum).

Reduced Airflow Operation

For situations where humidity control is a problem, the variable speed motor can be enabled to operate at a 10% reduction in the normal airflow rate under the control of a humidistat. This can be achieved by connecting to a standard humidity control that is normally closed and opens on humidity rise.

The Control Board

The control board regulates airflow selection and features LED indicators that display operating mode, humidity control, and airflow CFM. The red LED flashes once for each 100 CFM. For example, if the operating CFM is 1200, the CFM LED will flash 12 times, then pause before repeating the 12-flash pattern.

Thermostat signals for emergency heat (EM), optional auxiliary heat (W1), reversing valve (O), compressor (Y1), and blower (G) are all indicated by lit LED's on this board.

This model is designed for use with heat pumps as well as air conditioning systems. The control board needs to sense a signal on the "O" thermostat wire in order to use cooling delay timing. For a straight air conditioning system, connect the "O" wire to the thermostat "R" wire.

- Replace disposable filters. Cleanable filters can be cleaned by soaking in mild detergent and rinsing with cold water.
- Install new/clean filters with the arrows on the side pointing in the direction of airflow.
- Do not replace a cleanable (high velocity) filter with a disposable (low velocity) filter unless return air system is properly sized for it.
- If water should start coming from the secondary drain line, a problem exists which should be investigated and corrected. Contact a qualified person.

ASSISTANCE OR SERVICE

If you need further assistance, you can write to the below address with any questions or concerns:

Whirlpool® Home Cooling and Heating
14610 Breakers Drive
Jacksonville, FL 32258

Please include a daytime phone number in your correspondence.

Accessories

To order accessories, contact your Whirlpool® Home Cooling and Heating dealer.

Electric Heat Kits

Refer to the accessory kit label on the front panel of the air handler for electric heat kit accessory options and applications.

Limited Warranty

September 2002

This warranty gives you specific legal rights and you may have other rights which vary from state/province to state/province. This warranty applies to U.S. and Canada only.

Warrantor: Allied Air Enterprises Inc., 355 Millennium Dr., Orangeburg, SC 29115

Products are available under the following brand names: Whirlpool, Whirlpool Gold

IF SOMETHING GOES WRONG, CONTACT THE WHIRLPOOL HOME COOLING & HEATING DEALER FROM WHOM YOU PURCHASED YOUR EQUIPMENT. IN MOST CASES, YOUR DEALER WILL BE ABLE TO CORRECT THE PROBLEM, BUT IF HE/SHE IS NOT ABLE TO DO SO, YOU SHOULD CONTACT TRADEWINDS DISTRIBUTING DIRECTLY IN WRITING AT THE FOLLOWING ADDRESS:

Whirlpool® Home Cooling and Heating
14610 Breakers Drive
Jacksonville, FL 32258

General Warranty

Subject to the limitations stated in this warranty, we warrant the covered equipment for residential use, when installed, operated and maintained according to the manufacturer's instructions, to be free of defects in workmanship or materials for a period of 5 years (1 year for commercial use) from the time of initial installation. We will replace any defective component without cost or expense to you except for the costs of diagnosis, delivery and labor for removing, servicing and/or replacing the parts or unit.

Warranty Begins

The warranty period begins when the installation is complete and the product is ready to operate. You must be able to verify this date whenever a warranty claim is made. Original bill of sale, installer's invoice or other similar document will suffice. If the beginning date cannot be verified, we will consider warranty coverage to begin 6 months after the date the product was shipped from our factory.

Limitations on Implied Warranties

Implied warranties of merchantability or, to the extent applicable, fitness for a particular purpose are excluded to the extent legally permissible and are in any event limited to 5 years, or the shortest period allowed by law. Some states/provinces do not allow limitations or exclusions on how long an implied warranty of merchantability or fitness lasts, so the above limitations or exclusions may not apply to you.

Only Warranty

This written Limited Warranty is the only warranty made by the warrantor; this warranty is in lieu of and excludes all other warranties by the warrantor, express or implied. The warrantor does not authorize any person to provide on its behalf any other warranty or to assume for it any further obligation in connection with the warranted product.

What is NOT Covered by Any Warranty

1. Cabinets or cabinet pieces.
2. Normal maintenance items such as filters, fan belts, fuses or other consumable items.
3. Damage caused by misuse, failure to maintain properly, accidents or acts of God.
4. External wiring, piping, venting or attachment of accessory products not integral to our product, including without limitation, humidifier, air cleaner, vent damper, thermostat or other mechanical devices not manufactured by the warrantor.
5. Products that have been operated in a corrosive atmosphere or otherwise in contact with corrosive materials where a concentration of acids, halogenated hydrocarbons or other corrosive elements such as urine, salt, etc. cause deterioration to metal surfaces or integral components. NOTE: Operation in a corrosive atmosphere is considered misuse and voids this warranty.
6. Products that have NOT been installed, used and maintained in accordance with our published installation instructions, applicable local, state/provincial or national codes, and/or ACCA published standards.
7. Products that have NOT been installed by competent, qualified installers.
8. Products that have been moved from their original place of installation.

Warranty on Replacement Components

Any replacement product or component furnished by us will assume the remaining (unused) portion of the Limited Warranty.

Consequential Damages

The warrantor shall not be responsible for any accidental consequential damages caused by any defect in the product. Some states/provinces do not allow the exclusion or limitations of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This product must be installed, used and cared for in accordance with the instruction manual. You are responsible for required periodic maintenance or service, such as changing or cleaning of air filters and lubrication or cleaning of components. **Failure to properly install, operate or maintain your unit voids this warranty.**

Keep this book and your sales slip together for future reference. You must provide proof of purchase or installation date for in-warranty service.

Write down the following information about your air handler to better help you obtain assistance or service if you ever need it. You will need to know the complete model and serial number. You can find this information on the air handler rating plate.

Dealer name _____

Address _____

Phone number _____

Model number _____

Serial number _____

Installation date _____